THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

RE: 230 Washam Rd

Date: January 26, 2016

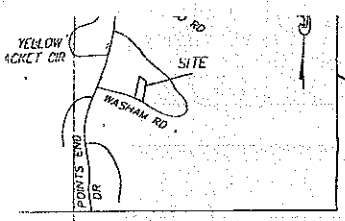
Attached is the septic specification information required to permit 230 Washam Rd. for an Improvement Permit in Iredell County via the Expedited Review Process.

The attached information is not an Improvement Permit or an Authorization to Construct, and is only to assist the ICHD with permitting. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC Rules, which these specifications are in accordance with. If the ICHD wishes to change tank locations, distribution devices, etc they may do so at their discretion.

All information and specifications have been prepared in conjunction with ICHD permitting guidelines for the current lot owners to acquire an Improvement Permit on this lot. It is ultimately the ICHD's responsibility to verify all specifications, including soil descriptions, before permitting and/or septic system installation.

LICENSED SOIL SCIENTIST
KATHLEEN M. SAUNDERS
1313
STATE OF NORTH CAROLINA

Kathleen Saunders



CONSTRUCTION.
3) ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
4) ALL AREAS SHOWN HEREON WERE DETERMINED BY COORDINATE COMPUTATION.

CP = COMPUTED POINT (UNMARKED
R/W = RIGHT-OF-WAY
EOP = EDGE OF PAVEMENT
C/L = CENTERLINE
= UTILITY POLE

CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	CH
C1	69.87'	579.06'	N 69°51'11"W	69

S 57°07'17"E 142.58
10' DRAINAGE & UTILITY EASEMENT
PB: 52-148
LOT 4
B 50' Repair
R 64' Repair
P 85' Repair
O 94' Repair
35' REAR SETBACK
15' SIDE SETBACK
LOT 13
0.92 ACRES +-
Approved
MD
2-3-16
40'
well
25'
20'
Pool
40'
10'
52.7'
PORCH
60'
22.4'
51.4'
68'
PROPOSED HOUSE
20.0'
20.0'
permitted well location
S 12°02'44"W 281.38
GARAGE
PORCH
53.3'
22.4'
ST
110'
B
35'
R
70'
115'
91.6'
44'
75'
80'
35' FRONT SETBACK
O
P
B
60'
15' SIDE SETBACK
Driveway
N 12°35'13"E 316.23
LOT 14
PB: 52-149
LOT 12
PB: 52-149
N 72°49'00"W 67.39
C1
WASHAM ROAD SR # 2154
60' PUBLIC R/W
0
30'

DRAWN BY: SRW
DRAWING FILE NAME: 15215.WP13
PROJECT NO: 15215

HOUSE LOCATION PLAN FOR
IQ CUSTOM

HARRIS LAND SURVEYING.
FIRM LICENSE # P-120

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet:
Property ID:
Lot #: 13
File #:
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: IQ Custom Homes
Applicant: IQ Custom Const
Address: 230 Linsham Rd
Date Evaluated: 1/21/16
Proposed Facility: SFR
Design Flow (.1949) 480
Property Size: 0.92
Location of Site: Lot 13 Linsham Estates
Property Recorded:

Water Supply: [ ] Public [ ] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Approved MO 2/3/16

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	L 5%	0-12	Mo GR SCL	FR SS/SP	Br				
		12-35	Mo SBK C	↓	R				
		35-48	WK SBK C	↓	R; F Sap; F Mn;	F yel Br			0.275
2	L	0-14	Mo GR SCL	FR SS/SP	Br				
		14-36	Mo SBK C	FR SS/SP	Br R				
		36-48	WK SBK C	FR S/P	Br R; F Sap; C Mn;	F yel Br			0.225
3	L	0-16	Mo GR SCL	FR SS/SP	Br				
		16-30	Mo SBK C		R				
		30-43	WK SBK C	↓	R; C yel Br				0.225 to 43"
		43"	2 Chroma						
4	L 5-10%	0-24	Mo SBK C	FR SS/SP	R				
		24-48	WK SBK C	↓	R; F/C Sap				0.3
5	L 5-10%	0-27	Mo SBK C	FR. SS/SP	R				
		27-37	Mo SBK CL	↓	F Sap R				
		37-50	WK SBK CL		C Sap R				0.3

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)	25% Red	LD PP BPS
Site LTAR	0.225	0.3

Other Factors (.1946): divert gutters & surface H
Soil Evaluation By: KMS
Others Present: ELH
Site Classification (.1948): PS
Site Evaluation By: KMS
Others Present: ELH

230 Washam Road Fast Track - The Oaks Group, PA

Number of Bedrooms	**4**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.225**
Primary System Type	**25% Reduction**
No. Lines	7 (See Table)
Total Linear Feet	545
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Drop Boxes or Other
Tank Size	1000 gallon tank
Max Trench Bottom Depth	18"
Maintenance Agreement Required	No
Repair System	**LP PPBPS**
Total Linear Feet	295
Repair Loading Rate	0.3

Approved
MO
2/3/16

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	Repair	Blue	LP PPBPS	50
2	Repair	Red	LP PPBPS	64
3	Repair	Pink	LP PPBPS	85
4	Repair	Orange	LP PPBPS	96
5	System	Blue	25% Reduction	110 endfed
6	System	Pink	25% Reduction	35 endfed
7	System	Red	25% Reduction	70 endfed
8	System	Orange	25% Reduction	115 endfed
9	System	Red	25% Reduction	75 endfed
10	System	Pink	25% Reduction	80 endfed
11	System	Blue	25% Reduction	60 endfed
				Total System: 545'.
				Total Repair: 295'

Note: **Pay careful attention to trench depth. Consider surface swale to keep surface water off system area**
Tank and distribution device locations can be altered at the discretion of ICHD.
Keep proper setbacks if foundation drains are used

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: IQ Custom Homes APPLICANT: ___
ADDRESS: ___ APPLICATION DATE: ___ DATE EVALUATED: 2/1/16
PROPOSED FACILITY: ___ PROPOSED DESIGN FLOW (.1949): ___ PROPERTY SIZE: ___
LOCATION OF SITE: 230 Washam Rd PROPERTY RECORDED: ___
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	4-5%	0-15"	Brw, SCL, GR FR, SS, SP, SE						PS .225 to 42"
		15-36"	Rd/Brw C, WSBK FR, SS, SP, SE						
		36-42"	Rd C, WK SBK FR, SS, SP, SE						
		42"	Chroma 2						
2									
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: ___
OTHER(S) PRESENT: ___